

ABSTRACT OF THE DISCLOSURE

A high voltage distribution system and method for use with a cathode of a radiographic sensor device of a radiographic imaging apparatus are provided. The distribution system includes an insulated conductor formed on a first detector portion of the radiographic sensor device and communicating a high voltage to the cathode. The distribution system further includes an intermediate conduction portion communicating with the insulated conductor. The intermediate conduction portion includes a contact surface. The distribution system further includes a separable interconnect extending from a second portion of the radiographic sensor device. The separable interconnect communicates with an electrical voltage source and is positioned to come into contact with the intermediate conduction portion when the first detector portion of the radiographic sensor device is assembled to the second signal processing portion.

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